

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A particulate filter regenerating device comprising:
an accumulated particulate quantity section configured to detect a quantity of particulate matter that has accumulated within a particulate filter;
a regeneration timing determining section configured to determine a regeneration timing to initiate regeneration of a the particulate filter by combusting particulate matter that has accumulated in the particulate filter ~~at least~~ when the exhaust gas temperature is equal to or greater than a prescribed temperature regardless of the quantity of particulate matter detected in the accumulated particulate quantity section; and
a regeneration control section configured to execute control to combust particulate matter based on the regeneration timing determined by the regeneration timing determining section.
2. (Currently Amended) ~~The~~ A particulate filter regenerating device ~~recited in claim 1, wherein~~ comprising:
~~the~~ a regeneration timing determining section ~~includes~~ including an accumulated particulate quantity section configured to detect ~~the~~ a quantity of particulate matter that has accumulated within ~~the~~ a particulate filter, ~~and~~ the regeneration timing determining section ~~is being further~~ configured to determine ~~the~~ a regeneration timing to selectively initiate regeneration of the particulate filter by combusting particulate matter that has accumulated in the particulate filter ~~regenerate the particulate filter when either~~

during times when the accumulated particulate quantity reaches a prescribed quantity, ~~or~~ and during times when the accumulated particulate quantity is less than the prescribed quantity and ~~the~~ an exhaust gas temperature is equal to or greater than ~~the~~ a prescribed temperature; and a regeneration control section configured to execute control to combust particulate matter based on the regeneration timing determined by the regeneration timing determining section.

3. (Currently Amended) The particulate filter regenerating device recited in ~~claim 1~~ claim 2, wherein

~~the regeneration timing determining section includes an accumulated particulate quantity section configured to detect the quantity of particulate matter that has accumulated within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a first prescribed quantity, ~~or~~ and

during times when the accumulated particulate quantity reaches a second prescribed quantity that is smaller than the first prescribed quantity and the exhaust gas temperature is equal to or greater than the prescribed temperature.

4. (Currently Amended) The particulate filter regenerating device recited in claim 1, wherein

~~the regeneration timing determining section includes an accumulated particulate quantity section configured to detect the quantity of particulate matter that has accumulated within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a prescribed quantity, ~~or~~ and

during times when the exhaust gas temperature is equal to or greater than the prescribed temperature.

5. (Currently Amended) The particulate filter regenerating device recited in claim 1, wherein

~~the regeneration timing determining section includes an accumulated particulate quantity section configured to detect the quantity of particulate matter that has accumulated within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a prescribed quantity, ~~or~~ and

during times when the exhaust gas temperature is equal to or greater than the prescribed temperature after a prescribed travel distance has been reached.

6. (Currently Amended) The particulate filter regenerating device recited in claim 1, wherein

~~the regeneration timing determining section includes an accumulated particulate quantity section configured to detect the quantity of particulate matter that has accumulated within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a

prescribed quantity, ~~or~~ and

during times when a first prescribed travel distance has been reached.

7. (Original) The particulate filter regenerating device recited in claim 6, wherein

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter when a second prescribed travel distance has been reached that is smaller than the first prescribed travel distance and the exhaust gas temperature is equal to or greater than the prescribed temperature.

8. (Original) The particulate filter regenerating device recited in claim 1, wherein

the regeneration control section is further configured to execute control of at least one regeneration control device to raise the temperature of the exhaust gas above the temperature that would normally exist.

9. (Original) The particulate filter regenerating device recited in claim 1,
wherein

the regeneration timing determining section includes a sensor that detects the exhaust
gas temperature upstream of the particulate filter.

10. (Original) The particulate filter regenerating device recited in claim 1,
wherein

the regeneration timing determining section is configured to determine that the
exhaust gas temperature is equal to or greater than the prescribed temperature based on the
vehicle speed in order to regenerate the particulate filter.

11. (Original) The particulate filter regenerating device recited in claim 1,
wherein

the regeneration timing determining section is configured to determine that the
exhaust gas temperature is equal to or greater than the prescribed temperature based on at
least one operating condition of the engine in order to regenerate the particulate filter.

12. (Currently Amended) An engine exhaust gas cleaning device comprising:
a particulate filter configured to be installed in an exhaust passage of an engine and
configured to collect particulate matter from the exhaust gas; and
a particulate filter regenerating device configured to regenerate the particulate filter,
the particulate filter regenerating device including

an accumulated particulate quantity section configured to detect a
quantity of particulate matter that has accumulated within the
particulate filter,

a regeneration timing determining section configured to determine a
regeneration timing to regenerate ~~a~~ the particulate filter by
combusting particulate matter that has accumulated in the
particulate filter when ~~at least~~ the exhaust gas temperature is equal
to or greater than ~~the~~ a prescribed temperature regardless of the
quantity of particulate matter detected in the accumulated
particulate quantity section; and

a regeneration control section configured to execute control for
combusting particulate matter based on the regeneration timing
determined by the regeneration timing determining section.

13. (Original) The engine exhaust gas cleaning device recited in claim 12,
wherein

the regeneration timing determining section includes a sensor that detects the exhaust
gas temperature upstream of the particulate filter.

14. (Original) The engine exhaust gas cleaning device recited in claim 12,
wherein

the regeneration timing determining section is configured to determine that the
exhaust gas temperature is equal to or greater than the prescribed temperature based on the
vehicle speed in order to regenerate the particulate filter.

15. (Original) The engine exhaust gas cleaning device recited in claim 12, wherein

the regeneration timing determining section is configured to determine that the exhaust gas temperature is equal to or greater than the prescribed temperature based on at least one operating condition of the engine in order to regenerate the particulate filter.

16. (Currently Amended) ~~The~~ An engine exhaust gas cleaning device ~~recited in claim 12, wherein comprising:~~

a particulate filter configured to be installed in an exhaust passage of an engine and configured to collect particulate matter from the exhaust gas; and

a particulate filter regenerating device configured to regenerate the particulate filter, the particulate filter regenerating device comprising the

a regeneration timing determining section includes including an

accumulated particulate quantity section configured to detect the

a quantity of particulate matter that has accumulated within the

particulate filter, and the regeneration timing determining

section is being further configured to determine the a

regeneration timing to selectively initiate regeneration of the

particulate filter by combusting particulate matter that has

accumulated in the particulate filter to regenerate the particulate

filter when either

during times when the accumulated particulate
quantity reaches a prescribed quantity, ~~or~~
and
during times when the accumulated particulate
quantity is less than the prescribed
quantity and ~~the~~ an exhaust gas
temperature is equal to or greater than ~~the~~
a prescribed temperature, and
a regeneration control section configured to execute control for
combusting particulate matter based on the regeneration timing
determined by the regeneration timing determining section.

17. (Currently Amended) The engine exhaust gas cleaning device recited in ~~claim~~
~~12~~ claim 16, wherein

~~the regeneration timing determining section includes an accumulated particulate~~
~~quantity section configured to detect the quantity of particulate matter that has accumulated~~
~~within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the
regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a first
prescribed quantity, ~~or~~ and
during times when the accumulated particulate quantity reaches a second
prescribed quantity that is smaller than the first prescribed quantity

and the exhaust gas temperature is equal to or greater than the prescribed temperature.

18. (Currently Amended) The engine exhaust gas cleaning device recited in claim 12, wherein

~~the regeneration timing determining section includes an accumulated particulate quantity section configured to detect the quantity of particulate matter that has accumulated within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a

prescribed quantity, ~~or~~ and

during times when the exhaust gas temperature is equal to or greater than

the prescribed temperature.

19. (Currently Amended) The engine exhaust gas cleaning device recited in claim 12, wherein

~~the regeneration timing determining section includes an accumulated particulate quantity section configured to detect the quantity of particulate matter that has accumulated within the particulate filter, and~~

the regeneration timing determining section is further configured to determine the regeneration timing to regenerate the particulate filter ~~when either~~

during times when the accumulated particulate quantity reaches a

prescribed quantity, ~~or~~ and

during times when the exhaust gas temperature is equal to or greater than
the prescribed temperature after a prescribed travel distance has
been reached.

20. (Currently Amended) A particulate filter regenerating device comprising:

accumulated particulate quantity detecting means for detecting a quantity of
particulate matter that has accumulated within a particulate filter;

regeneration timing determining means for determining a regeneration timing to
initiate regeneration of a the particulate filter by combusting particulate matter that has
accumulated in the particulate filter ~~at least~~ when the exhaust gas temperature is equal to or
greater than a prescribed temperature regardless of the quantity of particulate matter detected
in the accumulated particulate quantity detecting means; and

regeneration control means for executing control to combust particulate matter based
on the regeneration timing determined by the regeneration timing determining means.